

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-205996

(43)Date of publication of application : 23.07.2002

(51)Int.Cl.

C07F 9/655
C07F 9/6553
C07F 9/6558
C07H 1/00
C07H 11/04
C12P 19/38
C12P 19/40
// C12N 15/09
(C12P 19/40
C12R 1:19)

(21)Application number : 2001-035749

(71)Applicant : MITSUI CHEMICALS INC

(22)Date of filing : 13.02.2001

(72)Inventor : KOMATSU HIRONORI
AWANO HIROICHI
FUKAZAWA NOBUYUKI
ITO KIYOSHI
IKEDA ICHIRO
ARAKI TADASHI
NAKAMURA TAKESHI
ASANO TAMOTSU
FUJIWARA JUNYA
ANDO TOMOYUKI
TSUCHIYA KATSUTOSHI
MARUYAMA KYOKO
UMETANI HIDETAKE
YAMAUCHI TAKAHIRO
MIYAKE JINKI

(30)Priority

Priority number : 2000033212
2000067333
2000341960

Priority date : 10.02.2000
10.03.2000
09.11.2000

Priority country : JP

JP

JP

(54) METHOD FOR SELECTIVELY PRODUCING 1-PHOSPHORYLATED SACCHARIDE
DERIVATIVE ANOMER AND METHOD FOR PRODUCING NUCLEOSIDE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide respective methods of high generality for producing an anomer-selective 1-phosphorylated saccharide derivative and a nucleoside, each independent of the difference in saccharide skeleton such as furanose or pyranose, the presence/absence of substituent such as deoxysaccharides, and the kind of saccharide such as natural type or non-natural type.

SOLUTION: The method for producing the anomer-selective 1-phosphorylated saccharide derivative comprises the following process: an anomer mixture of 1-phosphorylated saccharide derivatives is put to phosphorolysis and isomerization reaction, and either one of the products

is crystallized to break the equilibrium to selectively obtain the aimed isomer alone. The method for producing the nucleoside comprises making a nucleoside phosphorylase act on the thus obtained 1-phosphorylated saccharide derivative in the presence of a base to obtain the aimed nucleoside in high stereoselectivity and yield.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]